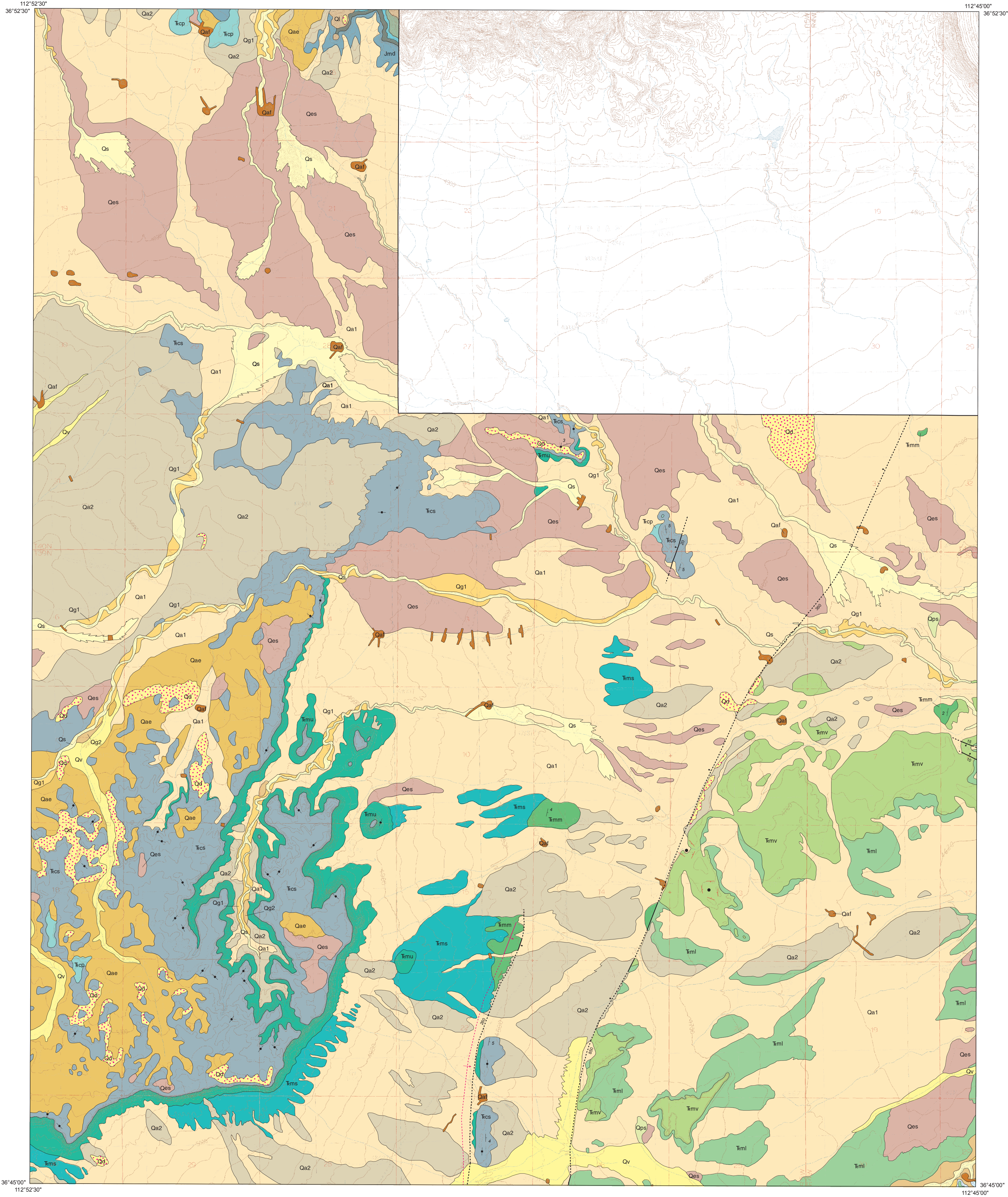




U.S. Department of the Interior  
U.S. Geological Survey

Scientific Investigations Map 3035



LIST OF MAP UNITS

SURFICIAL DEPOSITS

- Qaf Artificial fill and quarries
- Qs Stream-channel deposits
- Qps Pondered sediments
- Qd Dune sand and sand sheet deposits
- Qes Eolian sand sheet deposits
- Qae Young mixed alluvium and eolian deposits
- Qc Colluvial deposits
- Qv Valley-fill deposits
- Qg1 Young terrace-gravel deposits
- Qa1 Young alluvial fan deposits
- Qg2 Intermediate terrace-gravel deposits
- Qa2 Intermediate alluvial fan deposits
- Ql Landslide deposits

VOLCANIC ROCKS

SEDIMENTARY ROCKS

- Jk Kayenta Formation
- Jks Kayenta Formation, Springdale Sandstone Member
- Jmd Moenave Formation, Dinosaur Canyon Member
- Jmw Moenave Formation, Whitmore Wash Member
- Tcp Chinle Formation, Petrified Forest Member
- Tcs Chinle Formation, Shinarump Member
- Tmu Moenkopi Formation, upper red member
- Tms Moenkopi Formation, Shnabkaib Member
- Tmm Moenkopi Formation, middle red member
- Tmv Moenkopi Formation, Virgin Limestone Member
- Tml Moenkopi Formation, lower red member
- Pkh Kaibab Formation, Harrisburg Member

EXPLANATION

- Contact certain
- Fault certain; number is estimated offset in feet
- Fault concealed
- Anticline; dotted where concealed; arrows where plunging
- Monocline; dotted where concealed
- Strike and dip of beds
- Implied bedding
- Strike of vertical and subvertical joints
- Collapse structure

Derived from USGS SIM 3035, 2008  
Geologic Map of the Fredonia 30' x 60' Quadrangle, Mohave and Coconino Counties, Northern Arizona  
by George H. Billingsley, Susan S. Priest, and Tracey J. Felger  
Legend may include map units or features outside quadrangle boundary

Pipe Valley